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CMSH1-20

CMSH1-40

CMSH1-60

**CMSH1-100**



SCHOTTKY BARRIER RECTIFIER  
1.0 AMP, 20 THRU 100 VOLTS



SMB CASE

**Central**™  
Semiconductor Corp.

#### FEATURES:

- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- “C” BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- SPECIAL SELECTIONS AVAILABLE

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1.0 Amp Surface Mount Silicon Schottky Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

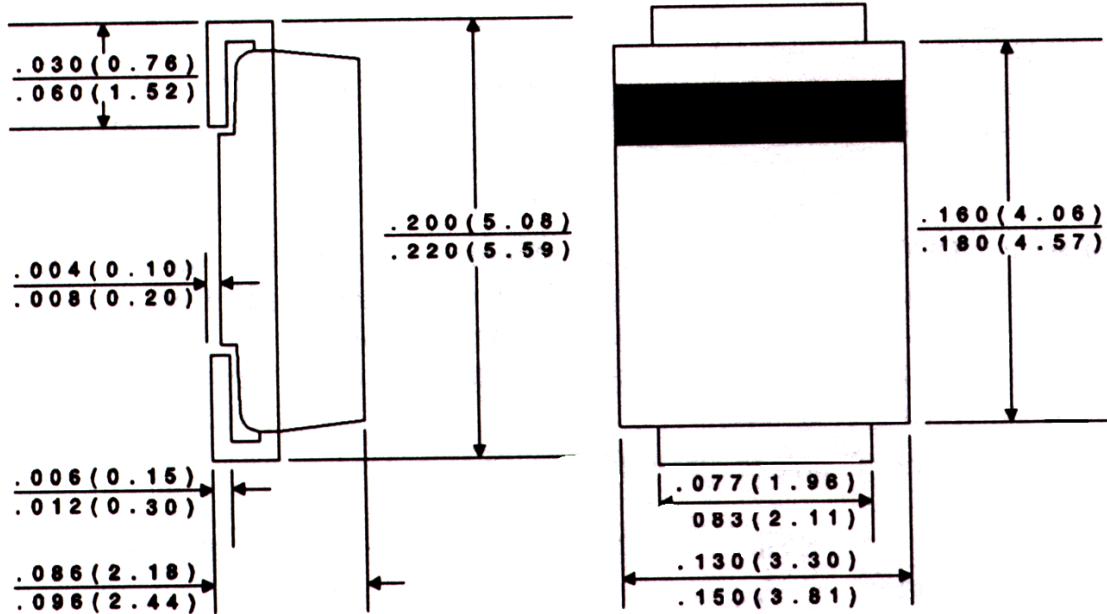
	SYMBOL	CMSH1 -20	CMSH1 -40	CMSH1 -60	CMSH1 -100	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	40	60	100	V
DC Blocking Voltage	$V_R$	20	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	42	70	V
Average Forward Current( $T_A=75^\circ\text{C}$ )	$I_O$			1.0		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$			30		A
Operating and Storage						
Junction Temperature	$T_J, T_{stg}$			-65 to +150		$^\circ\text{C}$
Thermal Resistance	$\Theta_{JL}$			20		$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$V_F$	$I_F=1.0\text{A}$ (CMSH1-20 AND CMSH1-40)			0.55	V
$V_F$	$I_F=1.0\text{A}$ (CMSH1-60)			0.70	V
$V_F$	$I_F=1.0\text{A}$ (CMSH1-100)			0.85	V
$I_R$	$V_R=\text{Rated } V_{RRM}$			0.50	mA
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$			20	mA

All dimensions in inches (mm).

### TOP VIEW



### Marking Codes:

DEVICE	MARKING CODE
CMSH1-20	CS20
CMSH1-40	CS40
CMSH1-60	CS60
CMSH1-100	CS100